SECTION 8-5
INEQUALITIES

EXERCISE A

Solve each inequality. Don't forget the "AND".

1) $\sqrt{y-2}-1>38$

2) $\sqrt{2x+2}+1\geq 5$

3) $\sqrt{4x-4}-2<4$

4) $\sqrt{2x+3}-4\leq 5$

5) $\sqrt{y-7}+5\geq 10$

6) $\sqrt{3b-11}<10$

7) $-3\sqrt{5x}\geq -30$

8) $\sqrt{d+6}+13<7$

9) $0\leq \sqrt{x-8}-5$

EXERCISE B

Solve each inequality. Don't forget the "AND" or "ANDS".

10) $1+\sqrt{7x-3}>3$

11) $\sqrt{3x+6}+2\leq 5$

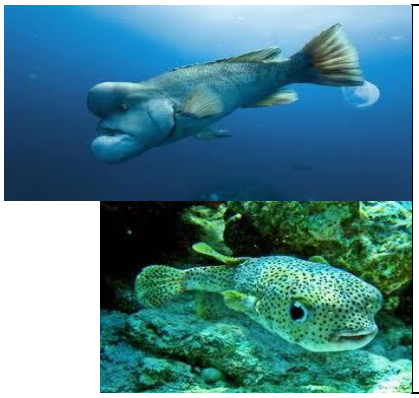
12) $-2+\sqrt{9-5x}\geq 6$

13) $6-\sqrt{2y+1}<3$

14) $\sqrt{2}-\sqrt{x+6}\leq -\sqrt{x}$

15) $10>3\sqrt{a+9}-5$

16) $\sqrt{b-5}-\sqrt{b+7}\leq 4$



17) The relationship between the length and mass of certain fish can be approximated by the equation: $L=0.46\sqrt[3]{M}$ where L is the length of the fish in meters, and M is the mass in kilograms. What is the approximate mass of a one meter long fish?

ANSWERS:

1)	$y > 1523$	7)	$0 \leq x \leq 20$	13)	$y > 4$
3)	$1 \leq x < 10$	9)	$x \geq 8$	15)	$-9 \leq a < 16$
5)	$y \geq 32$	11)	$-2 \leq x \leq 1$	17)	10.274kg